

HOT WATER TREATMENT OF MANGOES UNDER A CERTIFICATION ASSURANCE ARRANGEMENT

REVISION REGISTER

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OPERATIONAL PROCEDURE - ICA10

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1. PURPOSE

The purpose of this procedure is to describe -

- (a) the principles of operation, design features and standards required for hot water treatment equipment; and
- (b) the responsibilities and actions of personnel;

that apply to the certification of hot water treatment of mangoes for fruit fly for movement under an Interstate Certification Assurance (ICA) arrangement.

2. SCOPE

This procedure covers all certification of hot water treatment of mangoes from businesses operating under an Interstate Certification Assurance arrangement in the Northern Territory.

Hot water treatment is approved for use on mangoes only.

3. REFERENCES

WI-02 Guidelines for Completion of Plant Health Assurance Certificates

4. **DEFINITIONS**

Accreditation

Accredit means to authorise nominated staff within a business to issue

Assurance Certificates.

Act means the *Plant Health Act*.

Application for means an application for accreditation of a business for an

Interstate Certification Assurance (ICA) and/or Certification

Assurance (CA) arrangement (Attachment 1).

Assurance Certificate means a Plant Health Assurance Certificate (Attachment 2).

Authorised Signatory means a person whose name and specimen signature is included

as an Authorised Signatory on the business's application for

accreditation.

Certified/Certification means covered by a valid Plant Health Assurance Certificate

(Attachment 2).

Facility means the location of the Hot Water Treatment operation

covered by the Interstate Certification Assurance arrangement.

Fruit fly means Queensland fruit fly (Bactrocera tryoni), Lesser

Queensland fruit fly (Bactrocera neohumeralis) and Northern

Territory fruit fly (Bactrocera aquilonis).

HWT means hot water treatment.

ICA means Interstate Certification Assurance.

Inspector means an inspector appointed under the *Plant Health Act*.

Interstate Certification

Assurance

means a system of Certification Assurance developed to meet the requirements of State and Territory governments for the

certification of produce for interstate and intrastate quarantine

purposes.

Lot means the total number of fruit covered by one hot water

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INTERSTATE CERTIFICATION ASSURANCE

treatment.

Nonconformance PBB

means a non-fulfilment of a specified requirement. means the Plant Biosecurity Branch.

5. **RESPONSIBILITY**

These position titles have been used to reflect the responsibilities of staff under the ICA arrangement. These positions may not be present in all businesses, or different titles may be used for staff who carry out these responsibilities. In some businesses one person may carry out the responsibilities of more than one position.

The Certification Controller is responsible for -

- ensuring the business has current accreditation for an ICA arrangement under this Operational Procedure;
- training staff in their duties and responsibilities under this Operational Procedure;
- ensuring the business and its staff comply with their responsibilities under this Operational Procedure;
- ensuring that hot water treatment of mangoes certified under the business's ICA arrangement is carried out in accordance with this Operational Procedure.

The **Treatment Operator** is responsible for -

- placing temperature sensors in fruit and the water bath prior to commencing hot water treatment;
- ensuring fruit is completely immersed for the required minimum treatment period once treatment temperature has been attained;
- calibrating Temperature Sensors;
- maintaining Reference Thermometer Certificates of Testing from a recognised Testing Authority;
- maintaining Temperature Sensor Calibration Test Records:
- maintaining Hot Water Treatment Records;
- maintaining hot water treatment equipment.

The Authorised Dispatcher is responsible for -

- ensuring all treated fruit is protected against reinfestation by fruit fly after treatment in accordance with (refer 7.4);
- ensuring all packages containing certified fruit are identified in accordance with (refer 7.6.1);
- maintaining copies of all Assurance Certificates issued by the business under the ICA arrangement.

6. REQUIREMENT

This Operational Procedure details -



- the requirements and procedures for accreditation of a business for a Certification Assurance arrangement for hot water treatment of mangoes;
- the responsibilities and procedures which **must** be undertaken by a business and its staff when carrying out hot water treatment of mangoes under an ICA arrangement.

Fruit prepared in approved facilities under an ICA arrangement and certified in accordance with this Operational Procedure will be accepted as meeting the requirements for movement of fruit.

Mango fruit grown inside a Queensland Fruit Fly Pest Quarantine Area treated in approved hot water treatment facility at 46°C for a minimum period of 10 minutes.

The Department of Primary Industry and Resources maintains the right to inspect at any time fruit prepared for certification under an ICA arrangement, and to refuse to accept an Assurance Certificate issued by a business operating under an ICA arrangement where produce is found not to conform to specified requirements.

7. PROCEDURE

7.1 Accreditation

7.1.1 Application for Accreditation

A business seeking accreditation for an ICA/CA arrangement under this Operational Procedure **shall** submit an Application for Accreditation (refer Attachment 1) at least 10 working days prior to the intended date of commencement of certification of produce.

Applicants **must** provide the details of all produce, plants and plant products they intend to pack and certify under this ICA/CA arrangement in Section 4 of the Application for Accreditation. Ensure application form is completed correctly and all required attachments are provided. A copy of the application form **must** be maintained for audit purposes.

Each accredited business is provided with a unique Interstate Produce (IP) number to identify the business and its produce, plants and plant products for all interstate plant quarantine purposes as ministered by the Certificate of Accreditation.

7.1.2 Audit Process

Desk Audit

When the application is received a desk audit is conducted to ensure the application is completed correctly with the required attachments. If found to be incomplete the application form will be returned to the business for completion. Once the desk audit has been passed, an initial/compliance audit will be conducted.

Initial Audit

Prior to accrediting a business, an Inspector carries out an initial audit of the business to verify the ICA/CA system is implemented and capable of operating in accordance with the requirements of the Operational Procedure, and the system is effective in ensuring compliance with the specified requirements of the ICA/CA arrangement.



On completion of a successful initial audit, applicants will be granted provisional accreditation for a period of 4 weeks and a 'Certificate of Accreditation' for Provisional Certification will be issued (refer 7.1.3).

Initial Compliance Audit

In the first year of accreditation an initial compliance audit will be conducted within 4 weeks of accreditation or issuing an assurance certificate pursuant to the Operational Procedure. On completion of successful initial compliance audit the business **shall** be granted full accreditation.

On completion of a successful compliance audit, annual accreditation is granted to cover the current season, up to a maximum of twelve months from the date of provisional accreditation, and a new 'Certificate of Accreditation' issued (refer 7.1.3).

Compliance Audits

Compliance audits are conducted to verify that the ICA/CA system continues to operate in accordance with the requirements in the Operational Procedure.

Ongoing compliance audits are conducted at least once every six months for a business that operates for more than six months of each year.

Random audits are conducted on a selected number of accredited businesses each year. Random audits may take the form of a full compliance audit, or audits of limited scope to sample treatment mixtures, certified produce, ICA/CA system records or ICA/CA system processes.

Unscheduled compliance audits may be conducted at any time as a random audit or to investigate reported or suspected non-conformances.

Re-Accreditation

Accredited businesses are required to re-apply for accreditation each year the business seeks to operate under the ICA/CA arrangement. Businesses seeking re-accreditation **must** lodge a renewal application prior to accreditation lapsing, or if accreditation has lapsed, prior to being accredited to certify produce under the ICA/CA arrangement.

A compliance audit is conducted within twelve weeks of the business applying for reaccreditation each year.

7.1.3 Certificate of Accreditation

An accredited business will receive a 'Certificate of Accreditation for an Interstate Certification Assurance' detailing the facility location, Operational Procedure, scope (type of produce and chemical covered) and period of accreditation.

The business **must** maintain a current 'Certificate of Accreditation for an Interstate Certification Assurance' and make this available on request by an Inspector.

A business may not commence or continue certification of produce under the ICA/CA arrangement unless it is in possession of a valid and current 'Certificate of Accreditation



for an Interstate Certification Assurance' for the facility, procedure, produce type and chemical covered by the Assurance Certificate.

7.1.4 Nonconformances and Sanctions

7.1.4.1 Nonconformances

Audits are regularly undertaken to evaluate the effectiveness of implementation of the requirements. If, in the opinion of the auditor, there is evidence indicating that there has been a failure to meet one or more accreditation requirements, the auditor may raise a Non-conformance Report (NCR). Actions required to address the nonconformance **shall** be discussed and recorded on the NCR.

If integrity of the accreditation has been significantly compromised, the nonconformance may provide grounds for the suspension or cancellation of the accreditation, and prosecution.

7.1.4.2 Incident Reports

Incident Reports may be raised by intra and/or interstate quarantine authorities to report the detection of a nonconformance in produce certified under this arrangement. An investigation into the incident **shall** be conducted and findings reported back to the originator.

If the integrity of the accreditation has been significantly compromised, the incident may provide grounds for the suspension or cancellation of the accreditation, and prosecution.

7.1.4.3 Suspension and Cancellation

The PBB may suspend or cancel an accreditation when a business is found, to have:

- obtained accreditation through the provision of false or misleading information;
- contravened a procedure requirement that compromises the integrity of the arrangement;
- not rectified a non-conformance;
- not paid fees owing to the PBB.

Any action taken by the PBB to suspend or cancel an accreditation **shall** be provided in writing to the business. This **shall** provide guidance making an appeal to have the decision be reviewed.

7.1.4.4 Prosecution

Businesses found to be operating contrary to the Act may be liable for prosecution.

7.1.4.5 Charging Policy

Plant Biosecurity fees will apply to businesses that participate in ICA/CA arrangements. PBB can be contacted for a schedule of the Plant Biosecurity fees.

7.2 Hot Water Treatment Equipment Requirements

HWT facilities will require three (3) temperature sensors to record fruit and one (1) temperature sensor to record water bath temperatures and a recording system to capture temperature readings. Temperature sensors **must** be capable of reading in increments of 0.5°C or less.



7.2.1 Calibration of Temperature Sensors

The calibration of temperature sensors will be done prior to the commencement of the season and at monthly intervals thereafter throughout the period of operation. Calibration will be performed using the hot water treatment water bath which has stabilised at 46°C.

Temperature sensors **shall** be placed in the water bath and sufficient time (approximately 1 hour) allowed for the temperature in the water bath to stabilise. The primary standard used for determining the temperature of the water bath at the time of calibration will be a Reference Thermometer.

Reference Thermometers used for calibrating temperature sensors **shall** be uniquely identified and **shall** be calibrated and certified by a recognised Testing Authority as accurate to within $\pm 0.1^{\circ}$ C at 46°C. Calibration **shall** be performed annually within 2 months prior to the commencement of the season.

The business **shall** maintain records of Reference Thermometer calibration as provided by the Testing Authority. Certificates of calibration **must** be traceable to the specified Reference Thermometer.

The reading of each sensor **shall** be within $\pm 0.4^{\circ}$ C of 46° C for 3 readings taken at five-minute intervals, recorded and compared to the certified Reference Thermometer. Variations will be recorded for each sensor.

Equipment which reads in increments of only 0.5°C <u>must</u> give a reading of 46°C on each of the three readings.

If the temperature recording equipment provides a zeroing function, the reading of each sensor may be adjusted to the same temperature as the certified reference thermometer.

Temperature sensors which fail calibration or are otherwise deemed as unusable **shall** be disposed of or identified in such a manner as to prevent inadvertent use.

The business **shall** maintain results of calibration checks on temperature sensors. Temperature sensor calibration test records **shall** record the following information -

- the date of calibration;
- the identification of the Reference Thermometer used to calibrate the temperature sensors;
- the identification of the temperature sensors calibrated;
- confirmation that each temperature sensor is accurate to within ±0.4°C at 46°C;
- the name of the officer responsible for conducting the calibration check.

An example Temperature Sensor Calibration Test Record is included as Attachment 4.



7.3 Hot Water Treatment

The Treatment Operator **shall** ensure that all fruit are placed into appropriate treatment containers.

Treatment containers **must** be made from a material that allows adequate water circulation through and around the fruit.

For example, plastic crates, wooden slatted or open metal bulk bins may be used.

7.3.1 Placement of Temperature Sensors

The Treatment Operator **shall** insert one temperature sensor in the flesh of each of three large fruit located at the top, middle and bottom of the treatment container to determine flesh temperatures of treated fruit. The largest fruits within the treatment lot **shall** be selected for the placement of the sensors within the fruit.

Sensors **shall** be inserted into the flesh of the fruit along the stem end and inserted to the depth of the seed. Sensors should then be withdrawn slightly to ensure that the probe is to the full depth of the flesh but at no point in contact with the seed.

A fourth sensor **shall** be placed in the water bath to determine treatment water bath temperature.

Temperature sensors **shall** be uniquely identified to enable the Treatment Operator to correlate temperature readings with specific sensors.

7.3.2 Fruit Immersion and Treatment

The treatment container **shall** be placed into the water bath. The Treatment Operator **shall** ensure all fruit are fully immersed and fruit does not float from the treatment container.

A mesh lid or other device may be required to ensure all fruit remains fully immersed during hot water treatment.

After the treatment container has been secured in the water bath, the water bath **shall** be heated to the treatment temperature (refer 6.). The three fruit temperature sensors **must** record the minimum treatment temperature (refer 6.) before treatment can commence. Treatment time **shall** not commence until all temperature sensors have reached the required treatment temperature.

The Treatment Operator **shall** monitor the water bath throughout the treatment. HWT facilities which require manual reading and recording of data **shall** have readings taken at each of the four sensors at five-minute intervals until completion of the treatment time.

For mangoes, temperatures **must** remain at or above 46°C for 10 minutes. Treatment time **shall** recommence on any occasion that temperature falls below 46°C.





The Treatment Operator **shall** maintain records of hot water treatment and temperature sensor readings (refer 7.5).

Allow the minimum time for the treatment (refer 6.) after all temperature sensors have reached the treatment temperature. An accurate timing mechanism capable of measuring time to the second **shall** be used for timing the duration of fruit treatment.

For mangoes secure conditions include: -

- (a) unvented packages;
- (b) vented packages with the vents secured with gauze/mesh with a maximum aperture of 1.6mm;
- (c) fully enclosed under tarpaulins, hessian, shade cloth, mesh or other covering which provides a maximum aperture of 1.6mm;
- (d) shrink-wrapped and sealed as a palletised unit;
- (e) fully enclosed or screened buildings, coldrooms, vehicles or other facilities free from gaps or other entry points greater than 1.6mm.

7.3.3 Packing and Security

Packing **shall** commence as soon as practicable after the hot water treatment. After treatment, fruit **shall** be placed in secure conditions whilst being allowed to cool.

Fruit **shall** be held for the minimum practical period after treatment before securing against reinfestation (refer 7.4).

Any treated fruit which is stored outside the treatment facility prior to dispatch **must** be held under secure conditions.

Any treated fruit which remains unpacked at the end of the day **must** be held in secure conditions until packed.

Completed pallets **shall** be held for the minimum practical period before placing in secure conditions.

7.4 Handling, Storage and Transport Under Secure Conditions (Tasmania Only)

The accredited business **must** handle, store and transport host produce according to the secure conditions requirements in Schedule 1B of the Plant Biosecurity Manual, Tasmania.

The Plant Biosecurity Manual can be found at http://dpipwe.tas.gov.au/biosecurity/plant-biosecurity/plant-biosecurity/plant-biosecurity-manual.

Certification assurance certificates **must** state that host produce was; "handled, stored and transported insecure conditions".

7.5 Treatment Records

The Certification Controller **must** record each hot water treatment using a Hot Water Treatment Record (refer Attachment 3) or records which capture the same information.



The business's treatment records **must** record -

- the date of hot water treatment:
- the treatment temperature (°C);
- the treatment commencement time;
- the temperature measured at each sensor of at least every five minutes during the treatment period including at commencement and completion of the treatment time;
- the treatment completion time;
- approximate quantity of fruit treated;
- identification of the Treatment Operator.

7.6 Dispatch

7.6.1 Package Identification

The Authorised Dispatcher **shall** ensure that each treated package is marked in indelible and legible characters of at least 5mm, at the end of every package with -

- the Interstate Produce (IP) number of the business that operates the approved facility in which the produce was treated; and
- the words "MEETS ICA-10" and
- the date or date code on which the fruit was treated;

prior to the issuance of an Assurance Certificate by the business under this Operational Procedure.

Any packages containing fruit that has not been treated in accordance with the requirements of this Operational Procedure <u>shall</u> not be marked as stated above.

7.6.2 Completion and Issuance of an Assurance Certificate for Hot Water Treatment of Mangoes under a Certification Assurance Arrangement

The Authorised Dispatcher **shall** ensure an Assurance Certificate is completed and signed by an Authorised Signatory of the business.

Assurance Certificates **shall** be in the form of a Plant Health Assurance Certificate (PHAC). A completed example is shown (refer Attachment 2).

Individual Assurance Certificates **shall** be issued to cover each consignment (ie. a discrete quantity of product transported to a single consignee at one time) to avoid splitting of consignments.

Additional detail for Tasmania only: In the additional certification section, the statement "handled, stored and transported in secure conditions".

Declarations **shall** be completed, issued and distributed in accordance with the Work Instruction 'Guidelines for Completion of Plant Health Assurance Certificates' (WI-02).



7.6.3 Assurance Certificate Distribution

The **original** (yellow copy) **must** accompany the consignment.

The **duplicate** (white copy) **must** be retained by the business.

The **triplicate** (green copy) **must** be sent to PBB monthly.

7.7 ICA System Records

The business shall maintain the following records -

- (a) Reference Thermometer Certificates of Testing (refer 7.2.1);
- (b) Temperature Sensor Calibration Test Record (refer 7.2.1);
- (c) Hot Water Treatment Record (refer 7.5);

ICA system records **shall** be retained for a period of not less than 24 months from completion.

ICA system records **shall** be made available on request by an Inspector.

7.8 ICA System Documentation

The business shall maintain the following documentation -

- (a) a copy of the business's current Application for Accreditation (refer Attachment 1);
- (b) a current copy of this Operational Procedure;
- (c) a current Certificate of Accreditation for an Interstate Certification Assurance.

ICA system documentation shall be made available on request by an Inspector.

8. ATTACHMENTS

Attachment 1	Application	for Approditor	tion of a Busin	aga far	(DLANIZ)
Attachment 1	Application	Tor Accreditat	ion of a Busin	ess for	(BLANK)

an Interstate Certification Assurance (ICA)

and/or Certification Assurance (CA)

Arrangement

Attachment 2 Plant Health Assurance Certificate (PHAC) (COMPLETED EXAMPLE)

Attachment 3 Hot Water Treatment Record (BLANK)

Attachment 4 Temperature Sensor Calibration Test Record (BLANK)



Application for Accreditation of a Business for an Interstate Certification Assurance (ICA) and/or Certification Assurance (CA) Arrangement

Attachment 1

	ch box that describ ne arrangement, tha											equired.
Indicate	e the type of applica	ation beir	ng made.		i	New	R	enewa	ı 🔲	Amendm	ent	
1.	Business/Perso	on Deta	ils									
\vdash	Type of Ownership Individual Partnership	Inc	orporate	d Compar e Associat	•		Other se spec	ify)				
(b)	Name of Business	s/Person				each partralian Australian Number (A Cooperation registration search fro Commission	ner in the Company ARBN) and Company (i.e. a company the Company the Company (i.e. a company the Company the Company (i.e. a company the Company the Company the Company (i.e. a company the Company the Company the Company (i.e. a company the Company the Company (i.e. a company (i.e.	eir norm y Numb d attach ciations opy of th	al order. er (ACN) a copy of must ne Certific	coartnership, Companie) or Austral of the Certifi provide ap cate of Regis Affairs or	s must prian Regist cate of Incorpriate stration or incorpriate	ovide their ered Body orporation. proof of registration
					[_ ,	ACN	L				
(c)	Trading Name/s o	f the Bus	siness/Pe	erson (as s	shown o	n packa	ges sent	t to ma	rket)			
(d)	Postal address of	the Busi	ness/Per	son								
						Teleph	one:	())			
-						Facsim	nile:	())			
-						Mobile	:					
L												
	E-mail											
(e)	Has the business/ registered previou interstate movement	sly for th	ie		Yes No		s's/perso te Produ		Α			
2.	Operational Pro	ocedure	and Fa	acility De	tails							
a)	Operational Proce											
r	Reference No.		Title of C	perational	Proced	ure/Prod	cedure					
(b)	Street address of	the facilit	ty									
` ,			•			Teleph	one:	()				
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-						Mobile						
3.	Authorised Sig	natorie	s (for Pl	ant Heal	th Assi	urance	Certifi	cates	\			
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	Certification				1							
Controll												
Addition Signator	al Authorised ries											
								1				

4.	Types (including insufficient space			Prepared Under the	ICA/CA Arrangement (if
5.	Interstate Certifica	ation Assuran	ce/Certification	Assurance System Ro	ecords
(a)	What records do you Operational Procedur		ify that the business	s is carrying out its respo	nsibilities and duties under the
				ples provided in the Ope	
(b)	·			and attach a copy to this	
(a) (b) (c)					
6.	Accreditation Con	ditions			
(a)	For the purposes of this	agreement the fo	ollowing definitions sh	all apply:-	
	Applicant	means the person	on, corporation , or ot	her legal entity who is accre	edited under this agreement.
	Inspector	means an inspe	ctor appointed under	the <i>Plant Health Act</i>	
	Department	means the Depa	artment of Primary Ind	ustry and Resources	
	Interstate Certification Assurance System			personnel and resource ninated in Section 2(a).	es used to implement the
(b)				ation assurance system in e records specified in Section	accordance with the Operational on 5.
(c)				ny premises where produce iicals, documents for record	e certified under the agreement is are stored.
(d)	The inspector may inspect	ect or take sample	es of any relevant iter	n present on the premises a	at the time of the inspection.
(e)					allowing the inspector or officer to Certification Assurance System.
(f)	The applicant authorise	s the persons list	ed in Section 3 of this	application to issue certific	ates on his or her behalf.
(g)	In the event of cancellar returned as they remain			t the certificate pad and any ch.	green copies must be
(h)	Plant Biosecurity fees w Biosecurity Branch can				this ICA/CA arrangement. Plant
	plicant agrees to abide I subject to those cond		tation conditions lis	sted above and acknowle	edges that any accreditation is
The	applicant certifies	that all of the	information con	tained in this applica	tion is true and correct.
Sig	nature/s				Date
Note:	Where the applicant is a applicants are members			applied, and signed, in the ap ust sign the application.	opropriate form. Where the
Office Us	e Only				
Desk Au	ı dit □ Pa	ssed	☐ Failed		
Name (p	rint)			Date received	//
Signatur	e:			Date completed	//

Post your application/s to: Department of Primary Industry and Resources, Plant Biosecurity Branch GPO Box 3000, DARWIN NT 0801

Attachment 2

Plant Health Assurance Certificate

Consignment Details (PLEASE PRINT)

CONSIGNOR (FROM) Name Sam's Mangoes Pty Ltd Address North Road Humpty Doo NT 0836

CONSIGNEE (TO)						
Name Adelaide Produce Market						
Address Burma Road						
Pooraka South Australia 5095						

RECONSIGNED TO (Splitting consignments or reconsigning whole consignments).
Name
Address

Certification Details (PLEASE PRINT)

IP NUMBER	FACILITY NUMBER	PROCEDURE	
A 9999	01	ICA- 10	

ACCREDITI	ACCREDITED BUSINESS THAT PREPARED THE PRODUCE					
Name Sar	n's Mangoes Pty Ltd					
Address N	orth Road					
Humpty	Doo NT 0836					
	GROWER OR PACKER					
Name As Above						
Address						
OTHER FACILITIES SUPPLYING PRODUCE						

BRAND NAME OR IDENTIFYING MARKS (as marked on packages)	DATE OR DATE CODE (as marked on packages)	
Sam's Mangoes	18032014	

Number of Packages	Type of Packages (e.g. trays, cartons)	Type of Produce	Authorisation for Split Consignment
2000	Trays	Mangoes	

Treatment Details

Treatment	Chemical (Active Ingredient)	Treatment Date	Concentration / Duration and Temperature
HWT	Heat	04/07/2007	Treated for 10 Mins @ 46°C or above

Additional Certification / Codes

Meets ICA10.

Declaration

I, an authorised Signatory of the accredited business that prepared the plants or plant produce described above, hereby declare that the plants or plant produce have been prepared in the business's approved facilities in accordance with the *Plant Health Act* and that the details shown above are true and correct in every particular.

AUTHORISED SIGNATORY'S NAME (PLEASE PRINT)	SIGNATURE	DATE
Joe Signatory	Joe Signatory	18/3/2014

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HOT WATER TREATMENT RECORD

Attachment 3

DATE OF TREATMENT	TREATMENT TEMP. (°C)	START TIME	SENSOR ID			READI MINUT	E		FINISH TIME	QUANTITY OF FRUIT TREATED (KG)	ATED (KG)	
	, ,			0	5	10	15	20		` ,	PRINTED NAME	SIGNATURE
				_	_						11(11(12)10/1012	0.0.0.0.0.0
					-							
												<u> </u>

TEMPERATURE SENSOR CALIBRATION TEST RECORD

Attachment 4

DATE OF CALIBRATION	REFERENCE THERMOMETER USED	TEMPERATURE SENSOR IDENTIFICATION	SENSOF	R READING	G @ 46°C	WITHIN $\pm 0.4^{\circ}$ C (YES OR NO)	OFFICER'S PRINTED NAME	OFFICER'S SIGNATURE
				_	_			
			1	2	3			
			1					
		 						
		1						
			1					
		 						

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